

Patent Claims

1. Laser-markable plastics, characterized in that  
5 a plastic which is difficult to laser-mark comprises as  
absorber material an intrinsically laser-markable  
polymer in the form of micromilled particles having a  
particle size of 0.1 - 100  $\mu$ m.
2. Laser-markable plastics according to Claim 1,  
10 characterized in that the absorber material is a high-  
temperature-resistant plastic.
3. Laser-markable plastics according to Claim 1 ~~or~~  
2, characterized in that the absorber material is  
15 polyphenylene sulfide, polysulfone, polyarylate,  
polyimide, liquid-crystalline polymers or a mixture  
thereof.
4. Laser-markable plastics according to ~~one of~~  
Claims 1 ~~to 3~~, characterized in that the proportion of  
the absorber material based on the plastics system is  
20 0.1 - 10% by weight.
5. Laser-markable plastics according to ~~one of~~  
Claims 1 ~~to 4~~, characterized in that the particle  
structure of the intrinsically markable polymer is  
retained in the plastic.
- 25 6. Laser-markable plastics according to ~~one of~~  
Claims 1 ~~to 5~~, characterized in that the absorber  
material additionally comprises, as further absorber,  
one or more light-sensitive pigments.
7. Laser-markable plastics according to Claim 6,  
30 characterized in that the light-sensitive pigment is  
natural or synthetic mica, copper phosphate, a special-  
effect pigment, a conductive pigment, a metal nitrate,  
metal sulfate, metal sulfide or metal oxide.
8. Laser-markable plastics according to ~~one of~~  
Claims 1 ~~to 7~~, characterized in that the proportion of  
the light-sensitive pigments in the plastic is from 0  
to 5% by weight, based on the plastics system.
9. Laser-markable plastics according to ~~one of~~  
Claims 1 ~~to 8~~, characterized in that the plastic which

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B1 a

54B  
B2 a

54B  
B2 a

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~~12. Mouldings consisting of the laser-markable plastic according to Claim 1.~~

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